



#6

SEQUENCE LISTING

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Ala Arg Ser Leu Glu Leu Thr Pro Thr Ser Tyr Asp Tyr  
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Arg Gly Gly Leu Thr Gln Tyr Ser Glu His Asp Tyr  
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Thr Gly Ala Glu Gly His Tyr  
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Thr Asp Met Gly Arg Tyr Gly Thr Ser Glu Trp  
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Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Val  
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<210> 9

<211> 13

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Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Leu  
1 5 10

<210> 10  
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Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Ile  
1 5 10

<210> 11  
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Gln Val Arg Val Arg Phe Ser Ser Asp Tyr Thr Asn Tyr  
1 5 10

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Leu Ile Arg Arg Lys Phe Thr Ser Glu Tyr Asn Glu Tyr  
1 5 10

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<400> 13  
Leu Ile Thr Arg Trp Asp Lys Ser Val Asn Asp Tyr  
1 5 10

<210> 14  
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Arg Arg Ser Asn Tyr Asp Arg Ser Trp Gly Asp Tyr

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His Ile Thr Pro Ala Gly Ser Ser Asn Tyr Val Tyr Gly Tyr  
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<210> 17  
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<213> lama sp.

<400> 17  
Asp Ile Arg Lys Arg Phe Thr Ser Gly Tyr Ser His Tyr  
1 5 10

<210> 18  
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<212> PRT  
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Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asp  
20 25 30

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val  
35 40 45

Ala Arg Ile Thr Arg Gly Gly Thr Thr Ser Tyr Ala Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr Leu  
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn  
85 90 95

Ala Arg Arg Ser Asn Tyr Asp Arg Ser Trp Gly Asp Tyr Trp Gly Gln  
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala His His Ser Glu Asp Pro Ser  
115 120 125

Ser

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<213> lama sp.

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Ile His  
20 25 30

Thr Met Gly Trp Tyr Arg Gln Thr Pro Gly Lys Glu Arg Asp Val Val  
35 40 45

Ala Thr Ile Gln Asp Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Leu Asn Thr Val Tyr Leu  
65 70 75 80

Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn  
85 90 95

Ala Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Val Trp Gly  
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro  
115 120 125

Gln Pro  
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<213> lama sp.

<400> 20  
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly

1	5	10	15
Ser Leu Arg	Leu Ser Cys Ala Ala	Ser Gly Thr Ile Leu Ser Ile Ile	
20	25	30	
Tyr Met Asp Trp Tyr Arg Gln Thr Pro Gly Lys Gln Arg Glu Leu Val			
35	40	45	
Gly Arg Ile Thr Ala Gly Gly Ser Thr Asn Tyr Ala Asp Ser Ala Lys			
50	55	60	
Gly Arg Phe Thr Ile Ser Lys Asp Asn Ala Lys Asn Thr Val Tyr Leu			
65	70	75	80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn			
85	90	95	
Ala Leu Ile Thr Arg Trp Asp Lys Ser Val Asn Asp Tyr Trp Gly Gln			
100	105	110	
Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln			
115	120	125	
Pro			

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 <212> PRT  
 <213> lama sp.

<400> 21
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Ile His
20 25 30
Thr Met Gly Trp Tyr Arg Gln Thr Pro Gly Thr Glu Arg Asp Val Val
35 40 45
Ala Thr Ile Gln Asp Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ile Leu Asn Thr Val Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr His Cys Asn
85 90 95
Ala Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Leu Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro
115 120 125

Gln Pro  
130

<210> 22  
<211> 131  
<212> PRT  
<213> lama sp.

<400> 22  
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ser Ser Ile Asn  
20 25 30  
Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val  
35 40 45  
Ala Ser Ile Thr Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Leu Lys  
50 55 60  
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ala Val Tyr Leu  
65 70 75 80  
Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn  
85 90 95  
Ala His Ile Thr Pro Ala Gly Ser Ser Asn Tyr Val Tyr Gly Tyr Trp  
100 105 110  
Gly His Gly Thr Lys Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys  
115 120 125  
Pro Gln Pro  
130

<210> 23  
<211> 130  
<212> PRT  
<213> lama sp.

<400> 23  
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Thr Ile Gly Asp Ile Tyr  
20 25 30  
Thr Met Ala Trp His Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val  
35 40 45  
Ala Ser Ala Thr Glu Ser Gly Ser Pro Asn Tyr Ala Asp Pro Val Lys

50

55

60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Leu Thr Val Tyr Leu  
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn  
85 90 95

Ala Leu Ile Arg Arg Lys Phe Thr Ser Glu Tyr Asn Glu Tyr Trp Gly  
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro  
115 120 125

Gln Pro  
130

<210> 24  
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<213> lama sp.

<400> 24  
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Thr Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Pro Ile Gly Asp Val Tyr  
20 25 30

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Met Val  
35 40 45

Ala Ser Ile Thr Ala Thr Gly Pro Pro Asn Tyr Thr Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Asp Lys Asn Thr Glu Tyr Leu  
65 70 75 80

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn  
85 90 95

Ala Gln Val Arg Val Arg Phe Ser Ser Asp Tyr Thr Asn Tyr Trp Gly  
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro  
115 120 125

Gln Pro  
130

<210> 25  
<211> 129  
<212> PRT



<213> lama sp.

<400> 25

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Arg Ser Ile Ser  
20 25 30

Ile Met Thr Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val  
35 40 45

Ala Arg Met Ser Ser Asp Gly Thr Thr Ser Tyr Thr Asp Ser Met Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu  
65 70 75 80

His Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys  
85 90 95

Ala Leu Ile Ser Ser Tyr Asp Gly Ser Trp Asn Asp Tyr Gly Gly Gln  
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln  
115 120 125

Pro-

<210> 26

<211> 130

<212> PRT

<213> lama sp.

<400> 26

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Asp Ile His  
20 25 30

Thr Met Gly Trp Tyr Arg Gln Thr Pro Gly Lys Gln Arg Asp Val Val  
35 40 45

Ala Thr Ile Gln Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Leu Asn Thr Val Tyr Leu  
65 70 75 80

Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Trp Asn  
85 90 95

Ala Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Ile Trp Gly

100

105

110

Gln Gly Thr Leu Val Thr Val Phe Leu Glu Pro Lys Thr Pro Lys Pro  
 115 120 125

Gln Pro  
 130

<210> 27  
 <211> 130  
 <212> PRT  
 <213> lama sp.

<400> 27  
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Arg Tyr Asn  
 20 25 30

Thr Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val  
 35 40 45

Ala Thr Ile Ala Ser Thr Tyr Arg Thr Ser Tyr Ala Asp Ser Val Lys  
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Gly Thr Val Tyr Leu  
 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Ala Ala Arg Ser Leu Val Gln Thr Pro Thr Ser Tyr Asp Tyr Trp Gly  
 100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala His His Ser Glu Asp Pro  
 115 120 125

Ser Ser  
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<210> 28  
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 <212> PRT  
 <213> lama sp.

<400> 28  
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Phe Asn  
 20 25 30

Ala Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Gln Arg Glu Leu Val  
35 40 45

Ala Ala Ile Gly Asn Asp Gly Ala Thr Tyr Tyr Val Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ala Arg Glu Asn Ala Lys Asn Thr Val Tyr Leu  
65 70 75 80

Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys  
85 90 95

Gly Arg Gly Gly Leu Thr Gln Tyr Ser Glu His Asp Tyr Trp Gly Gln  
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln  
115 120 125

Pro

<210> 29

<211> 124

<212> PRT

<213> lama.sp.1

<400> 29

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Met Tyr  
20 25 30

Val Leu Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val  
35 40 45

Ala Ala Leu Met Gly Ser Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ile Lys Asn Thr Met Tyr Leu  
65 70 75 80

Gln Met Asn Ser Leu Thr Pro Glu Asp Thr Gly Val Tyr Tyr Cys Ala  
85 90 95

Gly Thr Gly Ala Glu Gly His Tyr Trp Gly Gln Gly Thr Gln Val Thr  
100 105 110

Val Ser Ser Ala His His Ser Glu Asp Pro Ser Ser  
115 120

<210> 30

<211> 124

<212> PRT  
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<400> 30  
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Leu Tyr  
20 25 30  
Val Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val  
35 40 45  
Ala Ala Leu Met Gly Ser Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys  
50 55 60  
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ile Lys Asn Thr Met Tyr Leu  
65 70 75 80  
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Ala  
85 90 95  
Gly Thr Gly Ala Glu Gly His Tyr Trp Gly Gln Gly Thr Gln Val Thr  
100 105 110  
Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro  
115 120

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<212> PRT  
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Gln Val Gln Leu Gln Glu Ser Gly Gly Asp Leu Val Gln Ala Gly Gly  
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Ser Leu Arg Leu Ala Cys Ala Ala Ser Gly Ser Thr Phe Ser Phe Asn  
20 25 30  
Ala Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Gln Arg Glu Leu Val  
35 40 45  
Ala Ala Ile Gly Asn Asp Gly Ser Thr Tyr Tyr Val Asn Ser Val Lys  
50 55 60  
Gly Arg Phe Thr Ile Ser Arg Glu Asn Ala Lys Asn Thr Val Tyr Leu  
65 70 75 80  
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys  
85 90 95  
Gly Arg Gly Gly Leu Thr Gln Tyr Ser Glu His Asp Tyr Trp Gly Gln  
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln  
 115 120 125

Pro

<210> 32  
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 <212> PRT  
 <213> lama sp.

<400> 32  
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Thr Asp Asn Ile Asn  
 20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val  
 35 40 45

Ala Ala Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Thr Glu Phe Val Lys  
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Ala Val Tyr Leu  
 65 70 75 80

Gln Met Asn Asn Leu Lys Ser Glu Asp Thr Ala Val Tyr Ser Cys Lys  
 85 90 95

Met Thr Asp Met Gly Arg Tyr Gly Thr Ser Glu Trp Trp Gly Gln Gly  
 100 105 110

Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro  
 115 120 125

<210> 33  
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 <212> PRT  
 <213> lama sp.

<400> 33  
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Met Tyr  
 20 25 30

Val Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Pro Ile  
 35 40 45

Ala Ala Leu Met Gly Ser Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Glu Lys Asn Thr Met Tyr Leu  
65 70 75 80

Gln Met Asn Ser Leu Thr Pro Glu Asp Thr Gly Val Tyr Tyr Cys Ala  
85 90 95

Gly Thr Gly Ala Glu Gly His Tyr Trp Gly Gln Gly Thr Gln Val Thr  
100 105 110

Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro  
115 120

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<212> PRT  
<213> lama. sp.

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Asp Phe Arg Tyr Asn  
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Lys Leu Val  
35 40 45

Ala Thr Ile Thr Tyr Thr Tyr Arg Thr Asn Tyr Ala Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Gly Thr Val Tyr Leu  
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Ala Ala Arg Ser Leu Glu Leu Thr Pro Thr Ser Tyr Asp Tyr Trp Gly  
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro  
115 120 125

Gln Pro  
130